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4 ½ LCD Digital Panel Meter
PM-328

1. Features:

- 200mV full scale input sensitivity
- Single 9VDC operation (independent 7 to 12VDC)
- Decimal points selectable
- 11mm LCD figure height
- Automatic polarity indication
- High input impedance (>100MΩ)

2. Applications:

Voltmeter	Current Meter
Thermometer	Capacitance Meter
PH Meter	Lux Meter
DB Meter	LCR Meter
Watt Meter	Other industrial & domestic uses

3. Specifications

- Maximum input: 199.99mVDC
- Maximum display: 19999 counts (4 ½ digits) with automatic polarity indication
- Indication method: LCD display
- Measuring method: dual-slope integration A-D converter system
- Over-range indication: "1" shown in the display
- Input impedance: >100MΩ
- Accuracy: +/- 0.05% (23^0 +/-5^0C, <80% RH)
- Power dissipation: 0.5mA DC
- Decimal points: selectable with wire jumpers
- Supply voltage: independent 7 – 12VDC
- Size: 68mm x 44mm

4. Operation:

A) If needed, add proper voltage dividers (not included) and decimal point wire jumpers.

Maximum Voltage to be Measured	Proper Voltage Divider	Decimal Point
200mV	---	Short-circuit P2
2V	Disconnect wire jumper in RB, RB=9MΩ RA=1MΩ	Short-circuit P4
20V	Disconnect wire jumper in RB, RB=9.9MΩ RA=100kΩ	Short-circuit P3
200V	Disconnect wire jumper in RB, RB=9.99MΩ RA=10kΩ	Short-circuit P2
500V	Disconnect wire jumper in RB, RB=9.999MΩ RA=1kΩ	Short-circuit P1

RA and RB are 1/2W 0.05% Metal Film Resistors

B) Connect and independent 7 to 12VDC power supply to panel meter

C) For ranges other than 200mV, input an accurate 1/2x maximum voltage generated by a calibrator (e.g. 100.0V for 200.0V range) and carefully adjust the semi fixed resistor R1 to have the same reading in LCD.

D) Connect the input voltage to be measured to Vin. The input voltage should be in DC only.

5. Wiring Diagram: